

1641

#21

Approved for use through 10/31/2002. OMB 0651-0031
 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

10+

Application Number	09/596,444
Filing Date	June 19, 2000
First Named Inventor	Wei Huang
Group Art Unit	1641
Examiner Name	

Attorney Docket Number

LJL 354B

ENCLOSURES (check all that apply)

- Fee Transmittal Form
- Fee Attached
- Amendment / Reply
- After Final
- Affidavits/declaration(s)
- Extension of Time Request
- Express Abandonment Request
- Information Disclosure Statement (Fourth Supplemental)
- Certified Copy of Priority Document(s)
- Response to Missing Parts/ Incomplete Application
- Response to Missing Parts under 37 CFR 1.52 or 1.53

- Assignment Papers (for an Application)
- Drawing(s)
- Licensing-related Papers
- Petition
- Petition to Convert to a Provisional Application
- Power of Attorney, Revocation Change of Correspondence Address
- Terminal Disclaimer
- Request for Refund
- CD, Number of CD(s) _____

Remarks

- After Allowance Communication to Group
- Appeal Communication to Board of Appeals and Interferences
- Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
- Proprietary Information
- Status Letter
- Other Enclosure(s) (please identify below):

* PTO 1449 forms (7)

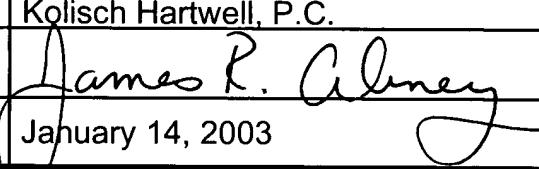
** 86 References

** 86 References

TECH CENTER 1600/2900

RECEIVED
JAN 21 2003

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	James R. Abney, Esq. Kolisch Hartwell, P.C.
Signature	
Date	January 14, 2003

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date:

January 14, 2003

Typed or printed name	Renee L. Knight		
Signature		Date	January 14, 2003

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Dated: January 14, 2003

WEI HUANG, MERL F. HOEKSTRA, SANDRA K. LEE,
NICHOLAS CAIRNS, LAWRENCE M. KAUVAR, and
J. RICHARD SPORTSMAN

Serial No. : 09/596,444

Examiner G. Gabel

Filed : June 19, 2000

Group Art Unit 1641

For : PHOSPHORYLATION ASSAYS

Commissioner for Patents
Washington, D.C. 20231

Sir:

**FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. §§ 1.56, 1.97, and 1.98**

Applicants are submitting this Fourth Supplemental Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98 to disclose to the Patent Office the patents and/or other publications listed on the enclosed, completed PTO-1449 forms. The filing of this Fourth Supplemental Information Disclosure Statement should not be construed as a representation that a search has been made or as an admission that the listed references are prior art for this application. Applicants respectfully request that the listed references be expressly considered during prosecution of the application, and that the references be made of record therein and appear among the "references cited" on any patents issuing therefrom.

TECH CENTER 1600/2900

RECEIVED
JAN 21 2003

CONTENT OF DISCLOSURE

This Fourth Supplemental Information Disclosure Statement includes (1) seven pages of PTO-1449 forms, and (2) a legible copy of each reference listed on the form.

TIMING OF DISCLOSURE / FEE INFORMATION

This Fourth Supplemental Information Disclosure Statement is being filed, to the best of the undersigned's knowledge, before the mailing of a first Office action on the merits. Therefore, in accordance with 37 C.F.R. § 1.97(b), no fee is required.

Please contact the undersigned attorney with any questions or comments regarding this Third Supplemental Information Disclosure Statement.

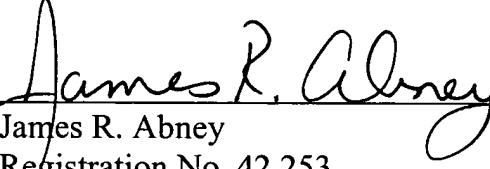
CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on January 13, 2003.



Respectfully submitted,

KOLISCH HARTWELL, P.C.



James R. Abney
Registration No. 42,253
Customer No. 23581
520 S.W. Yamhill Street, Suite 200
Portland, Oregon 97204
Telephone: (503) 224-6655
Facsimile: (503) 295-6679
Attorney for Assignee



SHEET 1 OF 7

FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER LJL 354B	APPLICATION NUMBER 09/596,444			
		APPLICANTS Wei Huang et al.				
		FILING DATE June 19, 2000	GROUP ART UNIT 1645			
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	3,901,654	8/26/75	Gross			
	4,163,780	8/7/79	Ishida et al.			
	4,257,774	3/24/81	Richardson et al.			
	4,492,762	1/8/85	Wang et al.			
	4,751,190	6/14/88	Chiapetta et al.			
	4,859,609	8/22/89	Dull et al.			
	4,863,876	9/5/89	Hevey			
	4,876,335	10/24/89	Yamane et al.			
	5,030,576	7/9/91	Dull et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	WO81/00261	2/5/81	WIPO			XX
	WO88/06633	9/7/88	WIPO			XX
OTHER DOCUMENTS						
	<i>Intramolecular Mobility of Pepsin</i> , Glotov et al., <u>Molecular Biology (Moscow)</u> , Vol. 10, No. 1, pp. 161-174, January-February 1976.					
	<i>Histone H1-DNA Interaction. Influence of Phosphorylation on the Interaction of Histone H1 with Linear Fragmented DNA</i> , Glotov et al., <u>Nucleic Acids Research</u> , Vol. 4, No. 4, pp. 1065-1082, April 1977.					
	<i>Histone H1--DNA Interaction. On the Mechanism of DNA Strands Crosslinking by Histone H1</i> , Glotov et al., <u>Nucleic Acids Research</u> , Vol. 5, No. 7, pp. 2587-2605, July 1978 (abstract only included).					
	<i>Molecular Biology of the Cell</i> , Alberts et al., pp. 58-61, 1983.					
	<i>Fluorescent-Labeled Oligonucleotide Probes: Detection of Hybrid Formation in Solution by Fluorescence Polarization Spectroscopy</i> , Murakami et al., <u>Nucleic Acids Research</u> , Vol. 19, No. 15, pp. 4097-4102, August 11, 1991.					
EXAMINER			DATE CONSIDERED			

RECEIVED
TECH CENTER 1600/2000
JAN 21 2003

JAN 17 2003

SHEET 2 OF 7

FORM PTO-1449

INFORMATION DISCLOSURE
CITATION IN AN APPLICATIONDOCKET NUMBER
LJL 354BAPPLICATION NUMBER
09/596,444

APPLICANTS

Wei Huang et al.

FILING DATE

June 19, 2000

GROUP ART UNIT
1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	5,124,457	6/23/92	Ungemach et al.			
	5,155,212	10/13/92	Dubler et al.			
	5,258,512	11/2/93	Heiman et al.			
	5,260,200	11/9/93	Kahn et al.			
	5,260,441	11/9/93	Heiman et al.			
	5,270,171	12/14/93	Cercek et al.			
	5,340,714	8/23/94	Katsilometes			
	5,393,659	2/28/95	Noah et al.			
	5,445,935	8/29/95	Royer			

TECH CENTER 1600/2900

JAN 21 2003

RECEIVED

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
	WO93/25672	12/23/93	WIPO			XX	
	WO97/45539	12/4/97	WIPO			XX	

OTHER DOCUMENTS

	<i>Design and Use of Peptide Substrates for Protein Kinases</i> , Kemp et al., <i>Methods in Enzymology</i> , Vol. 200, pp. 121-134, 1991.
	<i>Chromatin Condensation: Does Histone H1 Dephosphorylation Play a Role?</i> , Roth et al., <i>TIBS</i> , Vol. 17, pp. 93-98, March 1992.
	<i>Protein Phosphatase Assay Using a Modification of the P81 Paper Protein Kinase Assay Procedure</i> , Abukhalaf et al., <i>J. Biochem. Biophys.</i> , Vol. 26, pp. 95-104, May 1993 (abstract only included).
	<i>PNA Hybridizes to Complementary Oligonucleotides Obeying the Watson-Crick Hydrogen-Bonding Rules</i> , Egholm et al., <i>Nature</i> , Vol. 365, No. 6446, pp. 566-568, October 7, 1993.
	<i>DNA Detection by Strand Displacement Amplification and Fluorescence Polarization with Signal Enhancement Using a DNA Binding Protein</i> , Walker et al., Vol. 24, No. 2, pp. 348-353, January 15, 1996.

EXAMINER	DATE CONSIDERED



INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER LJL 354B	APPLICATION NUMBER 09/596,444			
		APPLICANTS Wei Huang et al.				
		FILING DATE June 19, 2000	GROUP ART UNIT 1645			
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	5,466,578	11/14/95	Kidwell			
	5,478,754	12/26/95	Brandt et al.			
	5,621,075	4/15/97	Kahn et al.			TECH CENTER 1600/2900 JAN 21 2003
	5,629,157	5/13/97	Goodman et al.			
	5,639,599	6/17/97	Ryder et al.			
	5,711,915	1/27/98	Siegmund et al.			
	5,741,715	4/21/98	Ghoshal et al.			
	5,783,687	7/21/98	Glazer et al.			
	5,801,149	9/1/98	Shoelson			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	WO98/12156	3/26/98	WIPO			XX
	WO98/45481	10/15/98	WIPO			XX
OTHER DOCUMENTS						
	<i>Molecular Beacons: Probes that Fluoresce Upon Hybridization</i> , Tyagi et al., <u>Nature Biotechnology</u> , Vol. 14, pp. 303-308, March 1996.					
	<i>Effects of Cell Cycle Dependent Histone H1 Phosphorylation on Chromatin Structure and Chromatin Replication</i> , Halmer et al., <u>Nucleic Acids Research</u> , Vol. 24, No. 8, pp. 1420-1427, April 15, 1996.					
	<i>A Homogeneous Fluorescence Polarization Assay for Detection of Antibody to Brucella Abortus</i> , Nielsen et al., <u>J. Immunol. Methods</u> , Vol. 195, pp. 161-168, September 9, 1996.					
	<i>BODIPY-alpha-casein, a pH-Independent Protein Substrate for Protease Assays Using Fluorescence Polarization</i> , Schade et al., <u>Anal. Biochem.</u> , Vol. 243, No. 1, pp. 1-7, December 1996.					
	<i>Thermodynamic Analysis of Monoclonal Antibody Binding to Duplex DNA</i> , Tanha et al., <u>Nucleic Acids Research</u> , Vol. 25, No. 7, pp. 1442-1449, April 1, 1997.					
EXAMINER			DATE CONSIDERED			

RECEIVED



INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER LJL 354B	APPLICATION NUMBER 09/596,444
		APPLICANTS Wei Huang et al.	
		FILING DATE June 19, 2000	GROUP ART UNIT 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	5,804,395	9/8/98	Schade et al.			
	5,807,522	9/15/98	Brown et al.			
	5,824,517	10/20/98	Cleuziat et al.			
	5,853,999	12/29/98	Olsson et al.			
	5,858,805	1/12/99	Cheng			
	5,866,335	2/2/99	Katsilometes et al.			
	5,985,550	11/16/99	Goodman et al.			
	6,007,984	12/28/99	Wang et al.			
	6,071,748	6/6/00	Modlin et al.			

RECEIVED
TECH CENTER 1600
JAN 21 2003
2000/2900

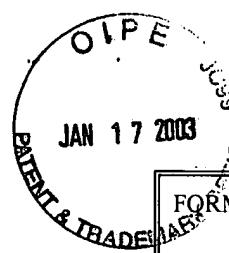
FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
	EP 0457213	7/23/97	EPO			XX	
	EP 0639647	2/22/95	EPO			XX	

OTHER DOCUMENTS

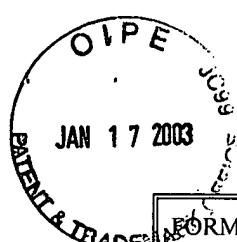
	<i>A Fluorescence Polarization Based Src-SH2 Binding Assay</i> , Lynch et al., <u>Anal. Biochem.</u> , Vol. 247, No. 1, pp. 77-82, April 5, 1997.
	<i>Measurement of Specific Protease Activity Utilizing Fluorescence Polarization</i> , Levine et al., <u>Anal. Biochem.</u> , Vol. 247, No. 1, pp. 83-88, April 5, 1997.
	<i>Dynamic Fluorescence Spectroscopy on Single Tryptophan Mutants of EII (mtl) in Detergent Micelles. Effects of Substrate Binding and Phosphorylation on the Fluorescence and Anisotropy Decay</i> , Dijkstra et al., <u>Biochemistry</u> , Vol. 36, No. 16, pp. 4860-4866, April 22, 1997.
	<i>A Homogeneous, Fluorescence Polarization Assay for Src-Family Tyrosine Kinases</i> , Seethala et al., <u>Anal. Biochem.</u> , Vol. 253, No. 2, pp. 210-218, November 15, 1997.
	<i>Fluorescence Polarization Colloid Charge Titration: Development and Application for Feed Forward Coagulant Control at Water Treatment Facilities (Thesis)</i> , Green, <u>University of Colorado Graduate School</u> , approved December 11, 1997.

EXAMINER	DATE CONSIDERED
----------	-----------------



JAN 17 2003

SHEET 5 OF 7

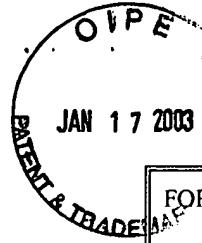


SHEET 6 OF 7

FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER	APPLICATION NUMBER			
		LJL 354B	09/596,444			
		APPLICANTS	Wei Huang et al.			
FILING DATE	GROUP ART UNIT					
June 19, 2000	1645					
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	EP 0774516	5/21/97	EPO			XX
	EP 0650521	3/7/01	EPO			XX
OTHER DOCUMENTS						
<i>U.S. Patent Application Serial No. 09/321,309 File History</i> , Sundberg et al., Filed May 27, 1999.						
<i>Histone H1 GenBank Search</i> , Lamar, <u>Davidson College Department of Biology</u> , internet pp. 1-2, 2000.						
<i>Linker Histone Binding and Displacement: Versatile Mechanism for Transcription Regulation</i> , Zlatanova et al., <u>The FASAB Journal</u> , Vol. 14, No. 12, pp. 1697-1704, September 2000.						
<i>Escaping the Heat: A Host of Kinase Assay Formats Gives Nonradioactive Options to Researchers</i> , Fitzgerald, <u>The Scientist</u> , Vol. 14, internet printed pp. 1-7, November 13, 2000.						
<i>Geldanamycin Abrogates ErbB2 Association with Proteasome-Resistant β-Catenin-E-Cadherin Association, and Decreases β-Catenin-Sensitive Transcription</i> , Bonvini et al., <u>Cancer Research</u> , Vol. 61, pp. 1671-1677, February 15, 2001.						
<i>Application Notes: Miniaturization of LANCE Kinase Assays</i> , PerkinElmer Life Sciences, pp. 1-3, May 2001.						
EXAMINER			DATE CONSIDERED			

RECEIVED

JAN 21 2003
TECH CENTER 1600
2900



JAN 17 2003

SHEET 7 OF 7

FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER LJL 354B	APPLICATION NUMBER 09/596,444			
		APPLICANTS Wei Huang et al.				
		FILING DATE June 19, 2000	GROUP ART UNIT 1645			
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
	<i>Analysis of Potential Compound Interference of AlphaScreen Signal</i> , Packard BioScience Inc., Application Note, pp. 1-4, August 2001.					
	<i>Use of Fluorescence Polarization to Monitor MHC-Peptide Interactions in Solution</i> , Dedier et al., <u>J. Immunol. Methods</u> , Vol. 255, pp. 57-66, September 1, 2001.					
	<i>MAP Kinase Assay</i> , Pedro et al. for Packard Bioscience Inc., Application Note, pp. 1-4, November 2001.					
	<i>P-Tyr-100 Insulin Receptor Tyrosine Kinase Assay</i> , Pedro et al. for Packard Bioscience Inc., Application Note, pp.1-4, November 2001.					
	<i>IQ Kinase Assay Products</i> , Pierce Biotechnology, Inc., internet printed pp. 1-8, 2002.					
	<i>Homogeneous Time-Resolved Fluorescence Product List</i> , CIS Bio International, 2002.					
EXAMINER			DATE CONSIDERED			

RECEIVED
JAN 21 2003
TECH CENTER 1600/2900